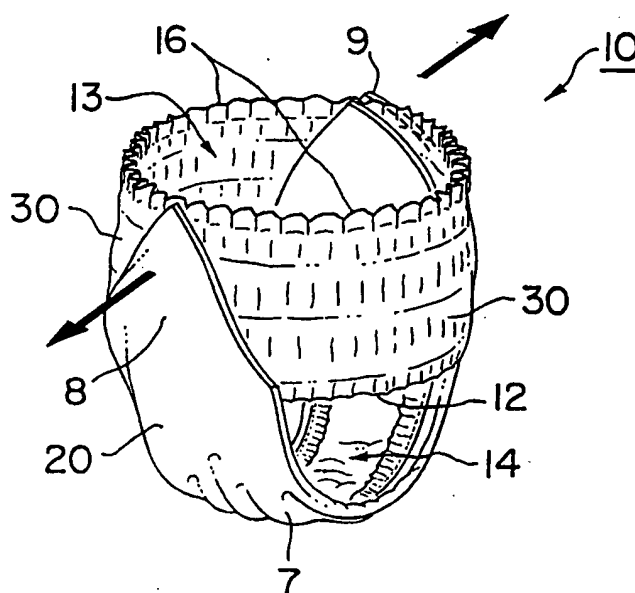




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<p>(21) International Application Number: PCT/JP92/01389 (22) International Filing Date: 27 October 1992 (27.10.92) (71) Applicant (for all designated States except US): PROCTER & GAMBLE FAR EAST, INC. [US/JP]; 17, Koyo-cho-Naka 1-chome, Higashinada-ku, Kobe-shi, Hyogo 658 (JP). (72) Inventors; and (75) Inventors/Applicants (for US only) : ROLLAG, Keith, W. [US/JP]; 302, Rokokan, 6-7, Miyazuka-cho, Ashiya-shi, Hyogo 659 (JP). YAP, Shyi, Earn [MY/JP]; 102, Sun-Court Ojikoan, 4-1-21, Kishijidori, Nada-ku, Kobe-shi, Hyogo 657 (JP). (74) Agents: SATO, Kazuo et al.; Kyowa Patent & Law Office, Room 323, Fuki Bldg., 2-3, Marunouchi 3-chome, Chiyo-da-ku, Tokyo 100 (JP).</p>		<p>(81) Designated States: AU, BR, CA, CS, FI, HU, JP, KR, NO, PL, RU, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE). Published <i>With international search report.</i></p>

(54) Title: DISPOSABLE DIAPER WITH FULLY ELASTICIZED WAIST OPENING



(57) Abstract

The present invention provides a disposable diaper having a fully elasticized waist opening with an improved fit of the diaper on the waist. A disposable pull-on diaper having a waist opening (13) and leg openings (14), includes an absorbent chassis (20) divided into halves by a longitudinal centerline, and elastic panels (30) which have a waist opening edge (16) and an opposing leg opening edge (12). The elastic panel is attached to a wearer-facing surface of each half of the chassis along attachment lines which comprise a front attachment line (21a, 21b) connecting a center of a front edge of the chassis to a point on each side of the chassis and a back attachment line (22a, 22b) connecting a center of a back edge of the chassis to a point on each side of the chassis. The elastic panel is attached to the chassis in such a manner that the waist opening edge of each elastic panel extends at least to the longitudinal centerline of the chassis. The elastic panels of the diaper form the entire waist opening.

【国際調査報告】

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 92/01389

I. CLASSIFICATION OF SUBJECT MATTER (If several classification symbols apply, indicate all) ⁶		
According to International Patent Classification (IPC) or to both National Classification and IPC		
Int.Cl. 5 A61F13/15		
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
Int.Cl. 5	A61F ; A41B	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁸		
III. DOCUMENTS CONSIDERED TO BE RELEVANT ⁹		
Category ¹⁰	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claims No. ¹³
A	WO,A,8 505 254 (BOUSSAC SAINT FRERES) 5 December 1985 cited in the application see page 1, line 30 - page 2, line 19 see page 8, line 18 - line 31 see page 9, line 8 - line 16 see page 10, line 34 - page 11, line 9 see figures 3-5,10	1-3,5,7, 12,14
A	EP,A,0 460 467 (UNI-CHARM) 11 December 1991 cited in the application see abstract see figures	1,4-5,7, 12-13
A	JP,U,3 107 919 (KAMATA) 6 November 1991 cited in the application see figure 1	1,4,12
¹⁰ Special categories of cited documents: <ul style="list-style-type: none"> "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 		
IV. CERTIFICATION		
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report	
18 JUNE 1993	20.07.93	
International Searching Authority	Signature of Authorized Officer	
EUROPEAN PATENT OFFICE	NICE P.	

ANNEX TO THE INTERNATIONAL SEARCH REPORT ON INTERNATIONAL PATENT APPLICATION NO.

JP 9201389
SA 66405

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The members are as contained in the European Patent Office EDP file on
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18/06/93

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO-A-8505254	05-12-85	BE-A- 900939	15-02-85
		FR-A- 2564299	22-11-85
		EP-A, B 0183752	11-06-86
		US-A- 4771483	20-09-88
		BE-A- 900032	28-12-84
		JP-T- 61502264	09-10-86
EP-A-0460467	11-12-91	JP-A- 4028365	30-01-92
		AU-A- 7722191	28-11-91
		CA-A- 2043016	25-11-91
		GB-A- 2244909	18-12-91
		US-A- 5204997	27-04-93
JP-U-3107919		None	